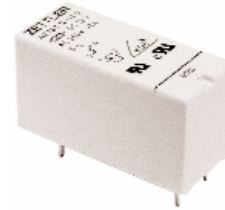


AZ763

12 A SPDT MINIATURE POWER RELAY

FEATURES

- Dielectric strength 5000 Vrms
- Low height: 15.7 mm
- Epoxy sealed version available
- 12 Amp switching
- Isolation spacing greater than 10mm
- Proof tracking index (PTI/CTI) 250
- Surpasses requirements of VDE 0631/0700
- UL, CUR file E43203; VDE 112904



CONTACTS

| | |
|---------------------------------------|---|
| Arrangement | SPDT (1 Form C) SPST (N.O.) (1 Form A) |
| Ratings | Resistive load: Max. switched power: 360 W or 3000 VA Max. switched current: 12 A Max. switched voltage: 300* VDC or 400 VAC *Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory. |
| Rated Load UL, CUR VDE | 12 A at 250 VAC general use 12 A at 250 VAC |
| Material | AgNi or AgNi gold plated |
| Resistance | < 100 milliohms initially |

COIL

| | |
|--|---|
| Power At Pickup Voltage (typical) | 200 mW |
| Max. Continuous Dissipation | 2.4 W at 20°C (68°F) ambient 2.1 W at 40°C (104°F) ambient |
| Temperature Rise | 14°C (25°F) at nominal coil voltage |
| Max. Temperature | 115°C (239°F) |

NOTES

| |
|---|
| 1. All values at 20°C (68°F). |
| 2. Relay may pull in with less than "Must Operate" value. |
| 3. Specifications subject to change without notice. |

GENERAL DATA

| | |
|--|--|
| Life Expectancy Mechanical Electrical | Minimum operations 3 x 10 ⁷ 1 x 10 ⁵ at 12 A 240 VAC res. |
| Operate Time (typical) | 7 ms at nominal coil voltage |
| Release Time (typical) | 3 ms at nominal coil voltage (with no coil suppression) |
| Dielectric Strength (at sea level for 1 min.) | 5000 Vrms coil to contact 1000 Vrms between open contacts |
| Insulation Resistance | 10 ⁵ megohms min. at 20°C 500 VDC 50% RH |
| Insulation (according to DIN VDE 0110, IEC 60664-1) | B250 at 2 Form C, unsealed C250 at other relay versions Overvoltage category: III Pollution degree: 3 Nominal voltage: 250 VAC |
| Dropout | Greater than 10% of nominal coil voltage |
| Ambient Temperature Operating Storage | At nominal coil voltage -40°C (-40°F) to 85°C (185°F) -40°C (-40°F) to 85°C (185°F) |
| Vibration | Break contacts: 5 g at 20...500 Hz Make contacts: 20 g at 30...500 Hz |
| Shock | 30 g |
| Enclosure | P.B.T. polyester, UL-94 : V0 |
| Terminals | Tinned copper alloy, P.C. |
| Max. Solder Temp. | 270°C (518°F) |
| Max. Solder Time | 5 seconds |
| Max. Solvent Temp. | 80°C (176°F) |
| Max. Immersion Time | 30 seconds |
| Weight | 14 grams |

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Telephone +44 (0) 1582 599 600 Fax +44 (0) 1582 599 700

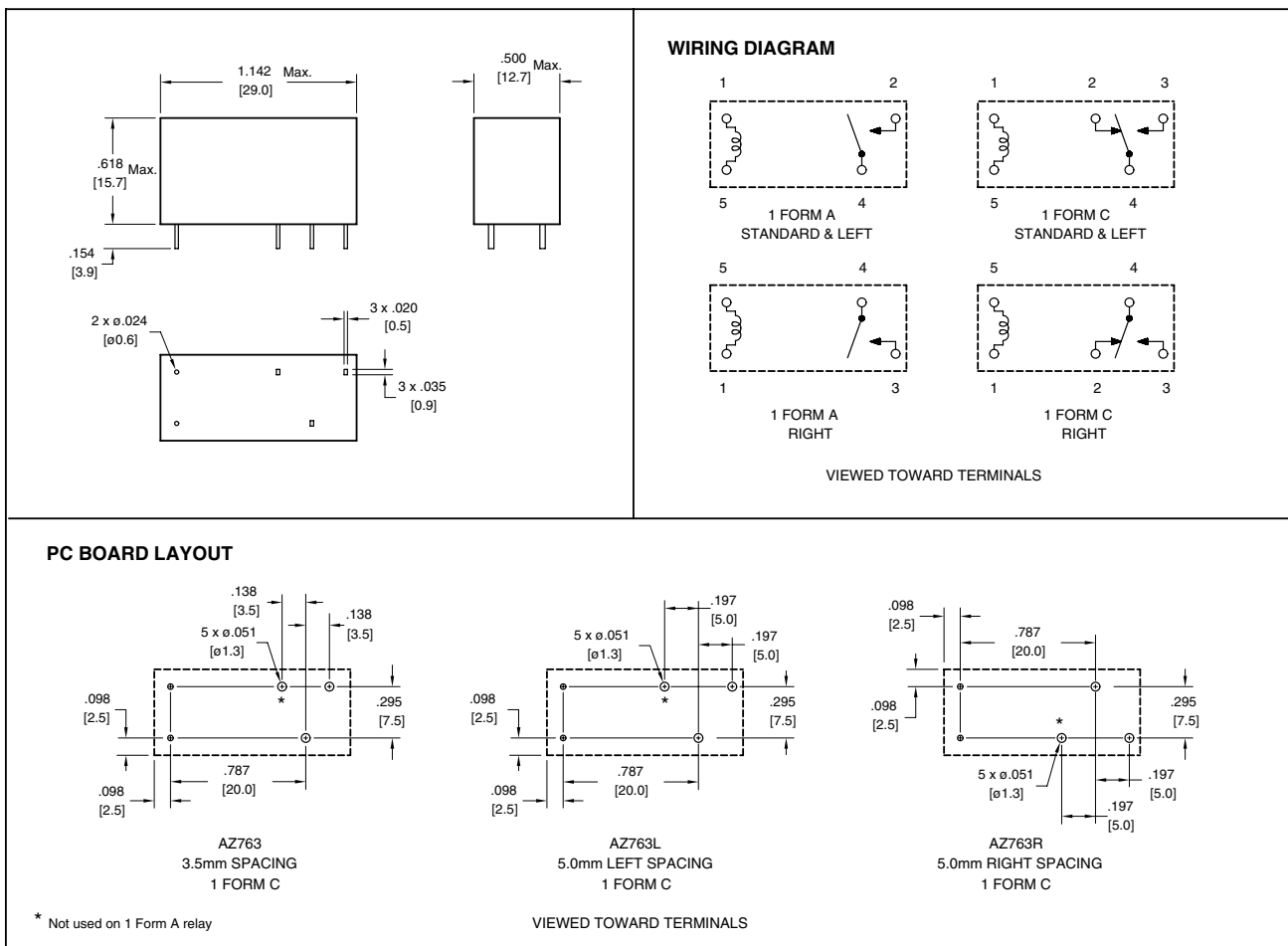
AZ763

RELAY ORDERING DATA

| COIL SPECIFICATIONS | | | | ORDER NUMBER* | | | |
|---------------------|------------------|---------------------|----------------------------|---------------|----------------|----------------|-----------------|
| Nominal Coil VDC | Must Operate VDC | Max. Continuous VDC | Coil Resistance $\pm 10\%$ | Unsealed | | Sealed | |
| | | | | 3.5 mm STD | 5 mm STD Left | 3.5mm | 5 mm STD Left |
| 3 | 2.1 | 7.6 | 22 | AZ763-1C-3D | AZ763L-1C-3D | AZ763-1C-3DE | AZ763L-1C-3DE |
| 5 | 3.5 | 12.7 | 60 | AZ763-1C-5D | AZ763L-1C-5D | AZ763-1C-5DE | AZ763L-1C-5DE |
| 6 | 4.2 | 15.3 | 90 | AZ763-1C-6D | AZ763L-1C-6D | AZ763-1C-6DE | AZ763L-1C-6DE |
| 9 | 6.3 | 22.9 | 200 | AZ763-1C-9D | AZ763L-1C-9D | AZ763-1C-9DE | AZ763L-1C-9DE |
| 12 | 8.4 | 30.6 | 360 | AZ763-1C-12D | AZ763L-1C-12D | AZ763-1C-12DE | AZ763L-1C-12DE |
| 18 | 12.6 | 45.9 | 710 | AZ763-1C-18D | AZ763L-1C-18D | AZ763-1C-18DE | AZ763L-1C-18DE |
| 24 | 16.8 | 61.2 | 1,440 | AZ763-1C-24D | AZ763L-1C-24D | AZ763-1C-24DE | AZ763L-1C-24DE |
| 36 | 25.2 | 92 | 3,140 | AZ763-1C-36D | AZ763L-1C-36D | AZ763-1C-36DE | AZ763L-1C-36DE |
| 48 | 33.6 | 122.0 | 5,700 | AZ763-1C-48D | AZ763L-1C-48D | AZ763-1C-48DE | AZ763L-1C-48DE |
| 60 | 42.0 | 153.0 | 7,500 | AZ763-1C-60D | AZ763L-1C-60D | AZ763-1C-60DE | AZ763L-1C-60DE |
| 110 | 77.0 | 280.0 | 25,200 | AZ763-1C-110D | AZ763L-1C-110D | AZ763-1C-110DE | AZ763L-1C-110DE |

*For 5 mm "Right" spacing substitute "AZ763L" with "AZ763R". "1C" : 1 Form C, contact material AgNi; "1A" : 1 Form A, contact material AgNi; "1CG" : 1 Form C, contact material AgNi gold plated; "1AG" : 1 Form A, contact material AgNi gold plated.

MECHANICAL DATA



Dimensions in inches with metric equivalents in parentheses. Tolerance: $\pm .010$ "

Hardware

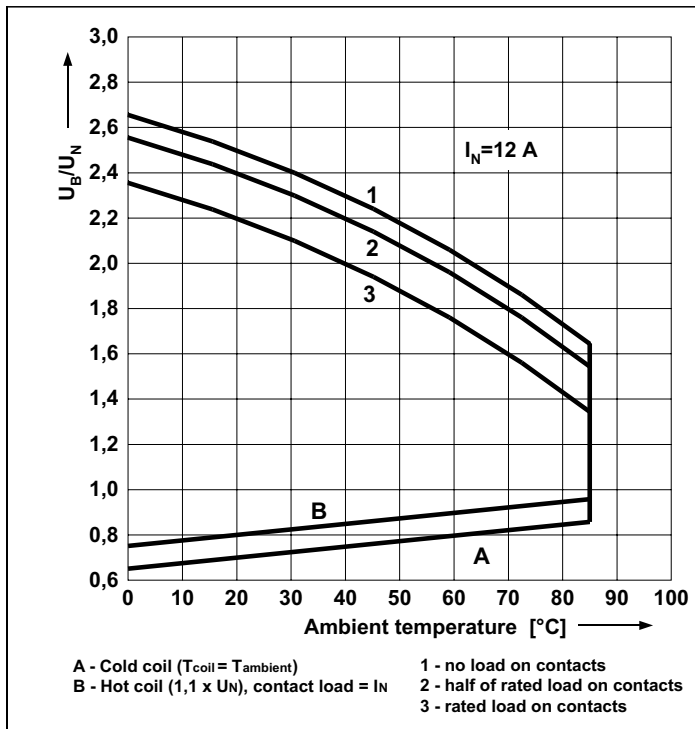
For PCB mount: Socket EC35 (version R and L : EC50) - Retaining clip MP16 / MH16
 For DIN coil mount: Socket ES35 (version R and L : ES50) - Retaining clip MS16

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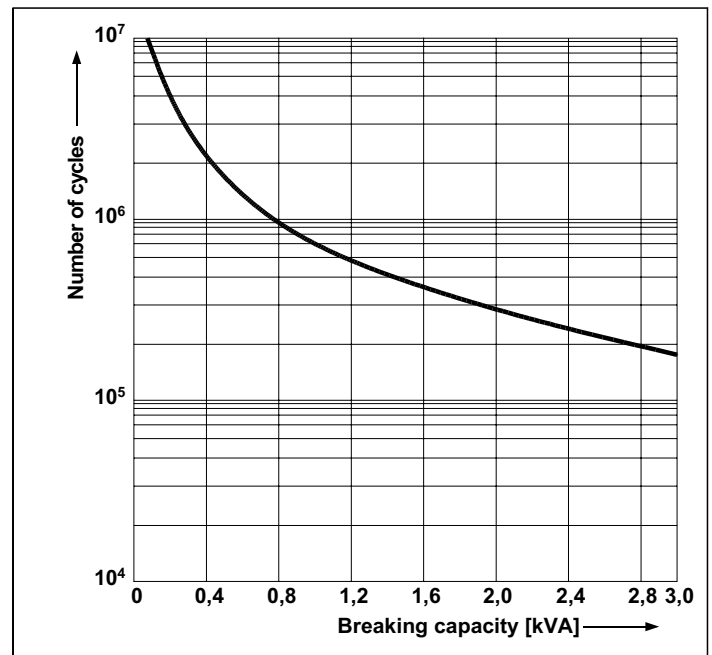
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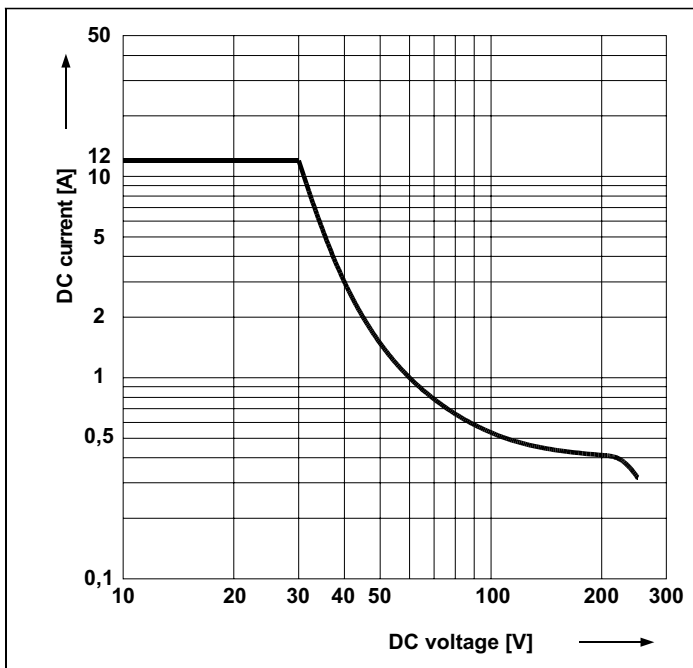
Coil operating range



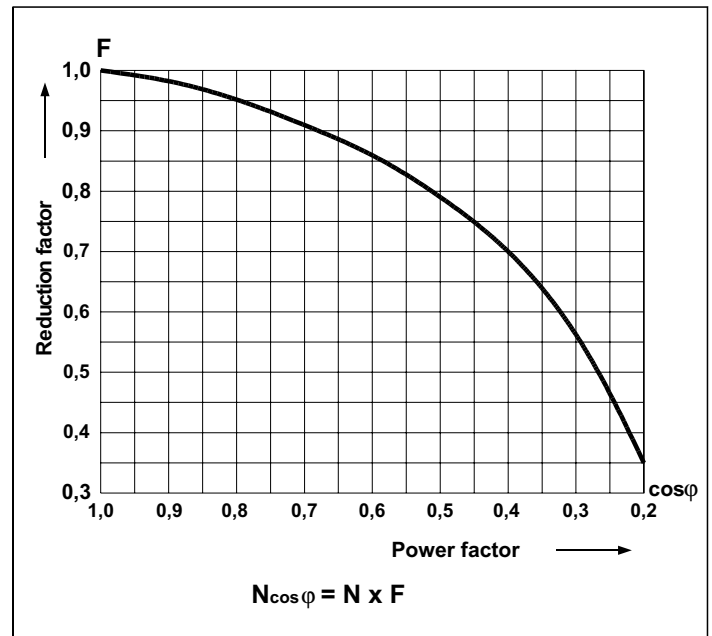
Electrical life at 250 VAC, resistive load



Max. DC resistive load breaking capacity



Electrical life reduction factor at inductive AC load



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